

UPDATED SEARCH

TRANSCRIPT

09/870, 676  
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NEWS 47 Feb 26 NTIS now allows simultaneous left and right truncation  
NEWS 48 Feb 26 PCTFULL now contains images  
NEWS 49 Mar 04 SDI PACKAGE for monthly delivery of multifile SDI results

NEWS EXPRESS January 6 CURRENT WINDOWS VERSION IS V6.01a.  
CURRENT MACINTOSH VERSION IS V6.02(ENG) AND V6.03(JP),  
AND CURRENT DISCOVER FILE IS DATED 01 OCTOBER 2002

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FILE COVERS 1907 - 10 Mar 2003 VOL 138 ISS 11  
FILE LAST UPDATED: 9 Mar 2003 (20030309/ED)

This file contains CAS Registry Numbers for easy and accurate substance identification.

=> s (mixed or asymmetrical or unsymmetrical) anhydride?  
MISSING OPERATOR METRICAL) ANHYDRIDE?  
The search profile that was entered contains terms or nested terms that are not separated by a logical operator.

=> s mixed anhydride? or asymmetrical anhydride? or unsymmetrical anhydride?  
685170 MIXED  
6 MIXEDS

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LOGINID:ssspal623ct

PASSWORD:

TERMINAL (ENTER 1, 2, 3, OR ?):2

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NEWS 3 Apr 09 BEILSTEIN: Reload and Implementation of a New Subject Area  
NEWS 4 Apr 09 ZDB will be removed from STN  
NEWS 5 Apr 19 US Patent Applications available in IFICDB, IFIPAT, and IFIUDB  
NEWS 6 Apr 22 Records from IP.com available in CAPLUS, HCAPLUS, and ZCAPLUS  
NEWS 7 Apr 22 BIOSIS Gene Names now available in TOXCENTER  
NEWS 8 Apr 22 Federal Research in Progress (FEDRIP) now available  
NEWS 9 Jun 03 New e-mail delivery for search results now available  
NEWS 10 Jun 10 MEDLINE Reload  
NEWS 11 Jun 10 PCTFULL has been reloaded  
NEWS 12 Jul 02 FORGE no longer contains STANDARDS file segment  
NEWS 13 Jul 22 USAN to be reloaded July 28, 2002:  
saved answer sets no longer valid  
Enhanced polymer searching in REGISTRY  
NETFIRST to be removed from STN  
CANCERLIT reload  
PHARMAMARKET (PHARMAM) - new on STN  
NTIS has been reloaded and enhanced  
Aquatic Toxicity Information Retrieval (AQUIRE)  
now available on STN  
IFICDB on STN  
IFIUDB have been reloaded  
The MEDLINE file segment of TOXCENTER has been reloaded  
The new searching in REGISTRY enhanced  
JAPTO has been reloaded and enhanced  
Experimental properties added to the REGISTRY file  
CA Section Thesaurus available in CAPLUS and CA  
CASREACT Enriched with Reactions from 1907 to 1985  
NEWS 26 Oct 01 CASREACT has been reloaded  
NEWS 27 Oct 21 EVENTLINE has been reloaded  
NEWS 28 Oct 24 BEILSTEIN adds new search fields  
NEWS 29 Oct 24 Nutraceuticals International (NUTRACUT) now available on STN  
NEWS 30 Oct 25 MEDLINE SDI run of October 8, 2002  
NEWS 31 Nov 18 DRILLIT has been renamed APOLLIT  
NEWS 32 Nov 25 More calculated properties added to REGISTRY  
NEWS 33 Dec 02 TIBKAT will be removed from STN  
NEWS 34 Dec 04 CSA files on STN  
NEWS 35 Dec 17 PCTFULL now covers WP/PCT Applications from 1978 to date  
NEWS 36 Dec 17 TOXCENTER enhanced with additional content  
NEWS 37 Dec 17 Adis Clinical Trials Insight now available on STN  
NEWS 38 Dec 30 ISMEC no longer available  
NEWS 39 Jan 13 Indexing added to some pre-1967 records in CA/CAPLUS  
NEWS 40 Jan 21 NUTRACUT offering one free connect hour in February 2003  
NEWS 41 Jan 21 PHARMAM offering one free connect hour in February 2003  
NEWS 42 Jan 29 Simultaneous left and right truncation added to COMPENDEX, ENERGY, INSPEC  
NEWS 43 Feb 13 CANCERLIT is no longer being updated  
NEWS 44 Feb 24 METADEX enhancements  
NEWS 45 Feb 24 PCTGEN now available on STN  
NEWS 46 Feb 24 TEMA now available on STN

685174 MIXED  
(MIXED OR MIXEDS)  
187574 ANHYDRIDE?  
3811 MIXED ANHYDRIDE?  
(MIXED(W)ANHYDRIDE?)  
2258 ASYMMETRICAL  
1 ASYMMETRICAL  
2259 ASYMMETRICAL OR ASYMMETRICALS)  
95246 ASYM.  
6 ASYMS  
95249 ASYM  
(ASYM OR ASYMS)  
96248 ASYMMETRICAL  
(ASYMMETRICAL OR ASYM)  
187574 ANHYDRIDE?  
5 ASYMMETRICAL ANHYDRIDE?  
(ASYMMETRICAL(W)ANHYDRIDE?)  
4193 UNSYMMETRICAL  
13046 UNSYM  
14893 UNSYMMETRICAL  
(UNSYMMETRICAL OR UNSYM)  
187574 ANHYDRIDE?  
(UNSYMMETRICAL ANHYDRIDE?)  
29 UNSYMMETRICAL ANHYDRIDE?  
(UNSYMMETRICAL(W)ANHYDRIDE?)  
3838 MIXED ANHYDRIDE? OR ASYMMETRICAL ANHYDRIDE? OR UNSYMMETRICAL  
L1  
=> s 11 and amino acid?  
902658 AMINO  
41 AMINOS  
902675 AMINO  
(AMINO OR AMINOS)  
4216179 ACID?  
575034 AMINO ACID?  
(AMINO(W)ACID?)  
794 L1 AND AMINO ACID?  
L2  
=> s 12 and organic base  
288761 ORGANIC  
3332 ORGANICS  
290934 ORGANIC  
(ORGANIC OR ORGANICS)  
793059 ORG  
12217 ORGS  
797321 ORG  
(ORG OR ORGS)  
888349 ORGANIC  
(ORGANIC OR ORG)  
562692 BASE  
130748 BASES  
644042 BASE  
(BASE OR BASES)  
8023 ORGANIC BASE  
(ORGANIC(W)BASE)  
5 L2 AND ORGANIC BASE  
L3  
=> d 1-5  
L3 ANSWER 1 OF 5 CAPLUS COPYRIGHT 2003 ACS  
AN 1994:630588 CAPLUS  
DN 121:230588  
TI An improved process for the preparation of 6- $\alpha$ -aminopenicillins in  
nonhalogenated solvents  
IN Ferrero Barruelo, Oscar; Lopez Ortiz, Juan F.; Vitaller Alba, Alejandro;

PA Salto Maldonado, Francisco; Nieves Elvira, Rosa Maria  
SO Antibioticos, S.A., Spain  
SPAN. 6 PP.  
CODEN: SPXXAD  
DT Patent  
LA Spanish  
FAN.CNT 1  
PATENT NO. KIND DATE APPLICATION NO. DATE  
PI ES 2050621 A1 19940516 ES 1992-2244 19921106  
ES 2050621 B1 19941216  
PRAI ES 1992-2244 19921106  
OS CASREACT 121:230588  
L3 ANSWER 2 OF 5 CAPLUS COPYRIGHT 2003 ACS  
AN 1982:200183 CAPLUS  
DN 96:200183  
TI Tyrosine derivatives  
IN Kaufmann, Klaus Dieter; Keilert, Manfred; Scholtipsek, Peter  
PA Ger. Dem. Rep.  
SO Ger. (East), 13 PP.  
CODEN: GEXXAG  
DT Patent  
LA German  
FAN.CNT 1  
PATENT NO. KIND DATE APPLICATION NO. DATE  
PI DD 151304 Z 19811014 DD 1980-221677 19800609  
PRAI DD 1980-221677 19800609  
L3 ANSWER 3 OF 5 CAPLUS COPYRIGHT 2003 ACS  
AN 1971:406264 CAPLUS  
DN 75:6264  
TI Peptides. VIII. .beta.-Dicarbonyl N-protected amino  
acids and model dipeptides  
AU Balog, Anton; Breazu, D.; Vargha, Eugen; Gonczy, F.; Beu, Lucia  
CS Inst. Chem. Pharm. Res., Cluj, Rom.  
SO Revue Roumaine de Chimie (1970), 15(9), 1375-90  
CODEN: RECHAX; ISSN: 0035-3930  
DT Journal  
LA English  
L3 ANSWER 4 OF 5 CAPLUS COPYRIGHT 2003 ACS  
AN 1965:463473 CAPLUS  
DN 63:63473  
OREF 63:11688e-h,11689a-d  
TI Colored activated esters. IV. Reactions of Cbo-L-glutamic acid anhydride  
with 4-(4-chlorophenylazo)phenol  
AU Harth, Alfred  
CS Univ. Halle-Wittenberg, Germany  
SO Ann. Chem. (1965), 686, 221-6  
DT Journal  
LA German  
L3 ANSWER 5 OF 5 CAPLUS COPYRIGHT 2003 ACS  
AN 1964:1395 CAPLUS  
DN 62:44135  
OREF 62:7857h,7858a-b  
TI Separation of organic bases by Craig partition. V.  
Synthesis and separation of aminocyclophedrine isomers, a new class of  
local anesthetics  
AU Schoenenberger, H.; Brinkmann, R.; Bamann, E.  
CS Univ. Munich, Germany  
SO Arch. Pharm. (1964), 297(12), 721-7  
DT Journal

LA German

=> d abs 3

L3 ANSWER 3 OF 5 CAPLUS COPYRIGHT 2003 ACS  
 AB The Danne procedure (1964) for N-blocking of amino acids with beta-ketocarbonyl compds. AcCH2COR [R = OEt, Me, Ph, C6H3(OMe)2] or 2-carbethoxycyclopentanone was modified: the Na or K salt of the dicarbonyl compds. was treated with amino acids (e.g., glycine, alanine, valine, leucine, phenylglycine, etc.) to give forty-four N-blocked amino acid salts (Na or K) without racemization. The N-blocked amino acids salts were also converted into salts with org. bases, e.g., dicyclohexylamine, piperidine, N-methylmorpholine, etc. These N-protected amino acid salts, when treated with dil. HCl, formed the corresponding N-blocked free amino acids, the blocking groups were hydrolyzed at lower pH (<3.5). The N-protected salts were coupled with Et glycinate, by a mixed anhydride method, to give the corresponding dipeptides.

=> s 12 and (phosphate or sulfate or sulphate or carboxylic)

474333 PHOSPHATE  
 107214 PHOSPHATES  
 516381 (PHOSPHATE OR PHOSPHATES)  
 424027 SULFATE  
 79148 SULFATES  
 464097 SULFATE (SULFATE OR SULFATES)  
 3555 SULFATE  
 591 SULFATES  
 3979 SULFATE (SULFATE OR SULPHATES)  
 201758 CARBOXYLIC  
 47 CARBOXYLIC  
 201777 CARBOXYLIC (CARBOXYLIC OR CARBOXYLICS)  
 L4 128 L2 AND (PHOSPHATE OR SULFATE OR SULPHATE OR CARBOXYLIC)

=> s 14 and amino acid anhydride?

902658 AMINO  
 41 AMINOS  
 902675 AMINO (AMINO OR AMINOS)  
 3567624 ACID  
 1359328 ACIDS  
 4030256 ACID (ACID OR ACIDS)  
 187574 ANHYDRIDE?  
 385 AMINO ACID ANHYDRIDE?  
 (AMINO(W) ACID (W) ANHYDRIDE?)  
 L5 5 L4 AND AMINO ACID ANHYDRIDE?

=> d 1-5

L5 ANSWER 1 OF 5 CAPLUS COPYRIGHT 2003 ACS  
 AN 1999:8638 CAPLUS  
 DN 130:153956  
 TI Oligomerization of N,O-Bis(trimethylsilyl)-alpha-amino acids into peptides mediated by o-phenylene phosphonochloridate  
 AU Fu, Hua; Li, Zhao-Long; Zhao, Xue-Fen; Fu, Guang-Zhong  
 CS Bioorganic Phosphorus Chemistry Laboratory Department of Chemistry, Tsinghua University, Beijing, 100084, Peop. Rep. China

SO Journal of the American Chemical Society (1999), 121(2), 291-295  
 CODEN: JACSAT; ISSN: 0002-7863  
 PT American Chemical Society  
 DT Journal  
 LA English  
 RE.CNT 22 THERE ARE 22 CITED REFERENCES AVAILABLE FOR THIS RECORD  
 ALL CITATIONS AVAILABLE IN THE RE FORMAT

ANSWER 2 OF 5 CAPLUS COPYRIGHT 2003 ACS  
 AN 1993:473047 CAPLUS  
 DN 119:73047  
 TI Studies on the disproportionation of mixed anhydrides of N-alkoxycarbonylamino acids  
 AU Benoiton, N. Leo; Lee, Young C.; Chen, Francis M. F.  
 CS Dep. Biochem., Univ. Ottawa, Ottawa, ON, Can.  
 SO International Journal of Peptide & Protein Research (1993), 41(4), 338-41  
 CODEN: IJPPC3; ISSN: 0367-8377  
 DT Journal  
 LA English

ANSWER 3 OF 5 CAPLUS COPYRIGHT 2003 ACS  
 AN 1986:19791 CAPLUS  
 DN 104:19791  
 TI A kinetic study of phosphinic carboxylic mixed anhydrides  
 AU Ramage, Robert; Atrash, Butrus; Hopton, David; Parrott, Maxwell J.  
 CS Dep. Chem., Univ. Manchester Inst. Sci. Technol., Manchester, M60 1QD, UK  
 SO Journal of the Chemical Society, Perkin Transactions 1: Organic and Bio-Organic Chemistry (1972-1999) (1985), (8), 1617-22  
 CODEN: JCPRE4; ISSN: 0300-922X  
 DT Journal  
 LA English

CASREACT 104:19791

ANSWER 4 OF 5 CAPLUS COPYRIGHT 2003 ACS  
 AN 1982:104376 CAPLUS  
 DN 96:104376  
 TI Design of organophosphorus reagents for peptide synthesis  
 AU Ramage, R.; Atrash, B.; Parrott, M. J.  
 CS Inst. Sci. Technol., Univ. Manchester, Manchester, M60 1QD, UK  
 SO ACS Symposium Series (1981), 171(Phosphorus Chem.), 199-204  
 CODEN: ACSMC8; ISSN: 0097-6156  
 DT Journal  
 LA English

ANSWER 5 OF 5 CAPLUS COPYRIGHT 2003 ACS  
 AN 1963:53698 CAPLUS  
 DN 58:53698  
 OREF 58:5222e-h  
 TI Aqueous polymerization of N-carboxy-.alpha.-amino acid anhydrides  
 AU Kida, Ryomas K.; Stehmann, Mark A.  
 CS U.S. Dept. of Agr., Peoria, IL  
 SO Polymers, Proteins, Proc. Intern. Symp., Madison, Wisc. (1962), 1961, 81-92  
 DT Journal  
 LA Unavailable

=> d abs 3

ANSWER 3 OF 5 CAPLUS COPYRIGHT 2003 ACS  
 AB The kinetics of disproportionation of phosphinic carboxylic mixed anhydrides derived from protected .alpha.-amino acids were studied by 32.4 MHz 31P NMR

spectroscopy as a function of the P substituents and the structure of the amino acid. The rates of disproportionation are insignificant from a preparative aspect compared with aminolysis at 0.degree..

=> d abs 5

L5 ANSWER 5 OF 5 CAPLUS COPYRIGHT 2003 ACS  
AB CF. CA 50, 12822c. The effect of ions on polymerization of N-carboxyleucine anhydride in aq. systems was followed by allowing the polymerization to occur in the presence of various ions at different concns. and detg. their effects on turbidity formation, the extent of polymerization (detd. at the end of the reaction as the fraction not hydrolyzed to the parent amino acid by colorimetric ninhydrin), and the rate of N-carboxy amino acid anhydride uptake (based on an anhydride analysis using a colorimetric ferric hydroxamate method). The anions studied included PO4---, HCO3-, cacodylate, and Cl-; the cations were Na+, Li+, and Ca+. The common cation for the anions was Na+, while the common anion for the cations was Cl-. NH3, L-leucine, and nucleic acids were also studied. The extent of polymerization increased with increase in concn. of the ion until an optimum concn. of the ion was reached, after which polymerization decreased with increase in ionic concn. In most cases the rate of uptake of the N-carboxy amino acid anhydride increased with increase in the concn. of the ion. Exceptions were the chlorides of Na, Li, and H, which showed decreases at higher concns. NaOH, at concns. 100eq. that of the anhydride, was very effective in causing fast polymerization, while HCl, at concns. 500eq. that of the anhydride, inhibited the rate and extent of polymerization markedly. Deoxyribonucleic and ribonucleic acids produced max. amts. of polymers when the equiv. concn. of the nucleotide phosphate was equal to the molar concn. of the N-carboxy amino acid anhydride. Propagation rate constants for these pseudo 1st order reactions were detd. and the results showed NaOH solns. to have the highest rate constants and HCl solns. the lowest. The effects of the ions, especially the anions, were explained by postulation of the mechanism of polymerization involving a mixed anhydride intermediate of the particular anion and the N-carboxy amino acid. N-benzoyl leucine, predicted by this mechanism, was isolated neutral benzoate being by-product of the polymerization, benzoylleucine, which was isolated by silica gel column chromatography, was apparently formed by means of a mixed anhydride of the benzoate anion and N-carboxyleucine.

=> d abs 1

L5 ANSWER 1 OF 5 CAPLUS COPYRIGHT 2003 ACS  
AB N,O-bis(trimethylsilyl)-.alpha.-amino acids, mediated by O-phenylene phosphorochloridate (PPC), could oligomerize into polypeptides. The mechanism might go through sequential steps, i.e., the activation of amino acid, the elongation of peptide chain, and the termination of elongation reaction, as can be traced by 31P NMR spectroscopy. The activated amino acid was a five-membered cyclic pentacoordinate phosphoric-carboxylic mixed anhydride. The nucleophilic attack of the amino group of an amino acid or a peptide on the carbonyl group of the intermediate led to the formation of the carbonyl phosphate ester. The repetition of the reaction sequence generated successively longer N,O-bis(trimethylsilyl)peptides, which were then hydrolyzed to give a series of oligopeptides. It is worth noting that only the N,O-bis(trimethylsilyl)-.alpha.-amino acids, not the N,O-bis(trimethylsilyl)-.beta.-amino acids, could be activated and assemble into polypeptides. The

mechanism of the five-membered cyclic pentacoordinate phosphoric-amino acid mixed anhydride intermediate showed that phosphorus could choose .alpha.-amino acids in the prebiotic synthesis of polypeptides and biosynthesis of proteins.

=> log hold  
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FULL ESTIMATED COST ENTRY SESSION  
DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS) SINCE FILE TOTAL  
CA SUBSCRIBER PRICE ENTRY SESSION  
-2.60 -2.60

=> d his

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L1 FILE 'CAPLUS' ENTERED AT 10:39:52 ON 10 MAR 2003  
L2 3838 S MIXED ANHYDRIDE? OR ASYMMETRICAL ANHYDRIDE? OR UNSYMMETRICAL  
L3 794 S L1 AND AMINO ACID?  
L4 5 S L2 AND ORGANIC BASE  
L5 128 S L2 AND (PHOSPHATE OR SULFATE OR SULPHATE OR CARBOXYLIC)  
5 S L4 AND AMINO ACID ANHYDRIDE?

=> s amino acid? and (chloroformate or chlorocarbonate)

902658 AMINO

41 AMINOS

902675 AMINO

(AMINO OR AMINOS)

4216179 ACID?

575034 AMINO ACID?

(AMINO(W)ACID?)

17403 CHLOROFORMATE

1610 CHLOROFORMATES

17983 CHLOROFORMATE

(CHLOROFORMATE OR CHLOROFORMATES)

1274 CHLOROFORMATE

164 CHLOROCARBONATES  
1365 CHLOROCARBONATE  
(CHLOROCARBONATE OR CHLOROCARBONATES)  
L6 1388 AMINO ACID? AND (CHLOROFORMATE OR CHLOROCARBONATE)  
=> s 16 and (morpholine or nmms)  
27291 MORPHOLINE  
1130 MORPHOLINES  
27756 MORPHOLINE  
(MORPHOLINE OR MORPHOLINES)  
743 NMMS  
7 NMMS  
750 NMMS  
(NMMS OR NMMS)  
L7 58 L6 AND (MORPHOLINE OR NMMS)  
=> s 17 and addition  
123742 ADDITION  
13904 ADDITIONS  
135217 ADDITION  
(ADDITION OR ADDITIONS)  
1311202 ADDN  
66030 ADDNS  
1353333 ADDN  
(ADDN OR ADDNS)  
1420193 ADDITION  
(ADDITION OR ADDN)  
L8 6 L7 AND ADDITION  
=> d 1-6  
L8 ANSWER 1 OF 6 CAPLUS COPYRIGHT 2003 ACS  
AN 12047613 CAPLUS  
DN 12047613  
TI Asymmetric synthesis of .alpha.-amino acids via  
catalytic asymmetric rearrangements  
AU Agami Claude; Couty, Francois; Lin, Jing; Mikaeloff, Axelle; Poursoulis,  
CS Lab. Chim. Org., Univ. P. et M. Curie, Paris, 75005, Fr.  
SO Tetrahedron (1993), 49(33), 7239-50  
CODEN: TETRA; ISSN: 0040-4020  
DT Journal  
LA English  
OS CASREACT 120:77613  
L8 ANSWER 2 OF 6 CAPLUS COPYRIGHT 2003 ACS  
AN 1990:612691 CAPLUS  
DN 113:212691  
TI Preparation of renin-inhibitory peptides containing difluoromethylene  
amide bond replacements.  
IN Schirlin, Daniel  
PA Merrell Dow Pharmaceuticals, Inc., USA  
SO Eur. Pat. Appl., 23 pp.  
CODEN: EPXNDW  
DT Patent  
LA English  
FAN.CNT 1  
PATENT NO. KIND DATE APPLICATION NO. DATE  
EP 371179 A1 19900606 EP 1988-402735 19881028  
CA 2001265 AA 19900428 CA 1989-2001265 19891023  
CA 2001265 C 20010501  
ZA 8908026 A 19900725 ZA 1989-8026 19891023  
IL 92102 A1 19940731 IL 1989-92102 19891024

DK 8905375 A 19900429 DK 1989-5375 19891027  
NO 890430 A 19900430 NO 1989-4300 19891027  
AU 8943867 A1 19900430 AU 1989-43867 19891027  
AU 522723 B2 19900430 AU 1989-43867 19891027  
EP 368719 A3 19900516 EP 1989-402976 19891027  
EP 368719 A3 19911002 EP 1989-402976 19891027  
EP 368719 B1 19970108  
R: AT, BE, CH, DE, ES, FR, GB, GR, IT, LI, LU, NL, SE  
HU 51649 A2 19900528 HU 1989-5473 19891027  
HU 209311 B 19940428  
JP 02172961 A2 19900704 JP 1989-278753 19891027  
JP 2899327 B2 1990602  
FI 95272 B 19950929 FI 1989-5109 19891027  
FI 95272 C 19960110  
E 19970115 AT 1989-402976 19891027  
ES 2099072 T3 19970516 ES 1989-402976 19891027  
CN 1043504 A 19900704 CN 1989-108935 19891028  
CN 1031880 B 19960529  
US 5114927 A 19920519 US 1991-759057 19910905  
PRAI EP 1988-402735 A 19881028  
US 1989-422255 B1 19891016  
OS MARPAT 113:212691  
L8 ANSWER 3 OF 6 CAPLUS COPYRIGHT 2003 ACS  
AN 1990:99261 CAPLUS  
DN 112:99261  
TI Preparation of N-(phosphonocyclohexylhydroxypropyl) derivatives of  
amino acids and dipeptides as renin inhibitors  
IN Patel, Dinesh V.  
PA Squibb, E. R., and Sons, Inc., USA  
SO Eur. Pat. Appl., 121 pp.  
CODEN: EPXNDW  
DT Patent  
LA English  
FAN.CNT 1  
PATENT NO. KIND DATE APPLICATION NO. DATE  
EP 331105 A2 19890906 EP 1989-103489 19890228  
EP 331105 A3 19900905 EP 1989-103489 19890228  
WO 8007992 A1 19890908 WO 1989-05777 19890223  
HU 52785 A2 19900828 HU 1989-2302 19890223  
JP 02503440 T2 19900118 JP 1989-403223 19890223  
ZA 8901594 A 19891129 ZA 1989-1534 19890223  
AU 8930999 A1 19890807 AU 1989-10999 19890223  
DK 8905469 A 19891227 DK 1989-5469 19891102  
US 5217958 A 19910608 US 1990-509398 19900412  
PRAI US 1988-163593  
US 1989-317257  
WO 1989-317257 19890223  
OS MARPAT 112:99261 19890228  
L8 ANSWER 4 OF 6 CAPLUS COPYRIGHT 2003 ACS  
AN 1989:614942 CAPLUS  
DN 111:214942  
TI Preparation of renin-inhibiting peptidylheterocycles and their  
intermediates for treatment of hypertension  
IN Rosenber, Saul Howard; Sham, Hing Leung; Baker, William R.; Dellaria,  
Joseph F., Jr.; Kempf, Dale J.  
PA Abbott Laboratories, USA  
SO Eur. Pat. Appl., 103 pp.  
CODEN: EPXNDW  
DT Patent  
LA English

FAN	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE	VIEW OF THE CONTRASTING BIOL. BEHAVIOR OF THE I-III, THE HYDROLYSIS OF THESE COMPDs. IN VITRO WAS STUDIED AND ISO-BR N,N-BIS(2-CHLOROETHYL)CARBAMATE (VIII) WAS SYNTHESIZED. VIII, LIKE III, WAS INACTIVE IN ANTICUMOR TESTS WHILE I AND THE "ETHYL CARBAMATE MUSTARDS" SHOWED REMARKABLE ACTIVITY. VI PREPD. (83%) AND CRYSTALLIZED GAVE A CRUDE PRODUCT, WHICH HEATED 0.5 HR. AT 100-20 DEGREE/1 MM. GAVE BENZYL-OXYCARBONYL-L-SERINE BENZYL ESTER (IX), m. 73-4 DEGREE. (ET2O-LIGROINE). BENZOYL-ETHYL-L-SERINE BENZYL ESTER (X) PREPD. AS ABOVE m. 82-3 DEGREE. (ET2O-COCL2) WAS PREPD. 20 MIN. AT 0 DEGREE. INTO A SUSPENSION OF 10 G. IX OR X IN 200 ML C6H6 OR PhMe, STIRRED 2 HRS., N BUBBLED THROUGH UNTIL ALL HCL AND COCL2 HAD BEEN REMOVED AND THE SOLVENT EVAPD. BELOW 40 DEGREE. NO ATTEMPT WAS MADE TO CRYSTALLISE THE CRUDE N-BENZYL-OXYCARBONYL-O-CHLOROCARBONYL-DL- AND L-SERINE BENZYL ESTERS (XI), (XII) WHICH WERE USED IN THE COUPLING EXPTS. SOLNS. OF XI OR XII IN C6H6 (ABOUT 3 ML./G.) COOLED DURING ADDN. OF 2.3 EQUIVA. OF VARIOUS BASES IN ET2O (5 ML./G.), THE SOLNS. KEPT AT ROOM TEMP. OVERNIGHT, WASHED WITH DIL. ACID, NaHCO3 SOLN. H2O, DRIED, AND EVAPD. AT 35 DEGREE. IN VACUO GAVE 71% PhCH2O2CNHCH(CH2O2CN(CH2CH2Cl)2CO2Me), m. 70-1 DEGREE. 83% L-ISOMER, m. 54-5 DEGREE. 75% PhCH2O2CNHCH(CH2O2CNH2CH2CH2Cl) CO2CH2Ph. m. 102-3 DEGREE. 82% PhCH2O2CNHCH(CH2O2CNP2) CO2CH2Ph. m. 56-7 DEGREE. DL-SERINE ME ESTER-HCL m. 134 DEGREE. (DECOMPN.). VI ME ESTER BL 178-83 DEGREE.. VI ME ESTER (7 G.) CONVERTED INTO THE O-CHLOROCARBONYL DERIV. IN THE SAME WAY AS THE BENZYL ESTER AS DESCRIBED ABOVE AND THIS COUPLED IN 40 ML. C6H6 WITH 9.5 G. HN(CH2CH2Cl)2 GAVE 63% N-BENZYL-OXYCARBONYL-O-[N,N-BIS(2-CHLOROETHYL)-CARBAMOYL]-DL-SERINE ME ESTER, m. 79-80 DEGREE.. IV PREPD. FROM 10 G. DL-THREONINE (NOT OBTAINED BY CRYST.) AND CONVERTED (18.9 G.) INTO THE BENZYL ESTER DIRECTLY BY REFLUXING 8 HRS. UNDER A H2O TRAP WITH 18 ML. PhCH2OH, 180 ML. C6H6, AND 0.5 G. P-MeC6H4SO3H GAVE 49% IV BENZYL ESTER, m. 63-4 DEGREE. (ET2O-LIGROINE). DL-THREONINE (2.4 G.) IN 5 ML. 4N NaOH TREATED PORTIONWISE AT 5 DEGREE. WITH 3.8 G. BENZYL CHLOROFORMATE, THE PH PORTIONWISE AT 8-10 BY ADDN. OF 2N NaOH, THE MIXT. SHAKEN 1 HR., EXT. WITH EtOAc, AND THE SOLVENT EVAPD. GAVE 52% 5-METHYL-2-OXOXAZOLIDINE-4-CARBOXYLIC ACID (XIII), PRISMS, m. 123-4 DEGREE. (EtOAc-LIGROINE). IV-VII (0.1 MOLE) IN 10 ML. 2N NaOH SHAKEN SEVERAL MIN. AT ROOM TEMP., THE MIXT. EXT. WITH EtOAc, THE Aq. LAYER ACIDIFIED, THE SOLN. EXT. WITH EtOAc, DRIED, AND EVAPD. GAVE CRUDE PRODUCT. FRICTIONATION WITH LIGROINE AND RECRYST. OF THE SOLIDS FROM EtOAc-LIGROINE GAVE PURE PRODUCTS. IV AND V GAVE XIII. XIII (0.5 G.) REFLUXED 6 HRS. WITH 10 ML. CONCD. HCL, THE RESIDUE DISSOLVED IN 5 ML. aic., AND TREATED WITH 0.5 ML. MORPHOLINE GAVE 350 MG. THREONINE, m. 236 DEGREE. (DECOMPN.). THE AMINO ACID WAS BENZOYLATED AND THE N-Bz DERIV. OBTAINED AS RODS, m. 144-5 DEGREE.. 20 ML. CRYSTALLINE N-BENZOYL-DL-THREONINE IX (6-8 G.) IN 70 ML. C6H6 TREATED AT 5 DEGREE. WITH 2.53 ML. PhMe AND COCL2, STIRRED 4 HRS. AT ROOM TEMP. LEFT OVERNIGHT, THE PhMe AND HCl REMOVED BY WASHING WITH DIL. ACID, THE ORG. LAYER DRIED, AND TREATED 3 HRS. WITH 2 G. HN(CH2CH2Cl)2 GAVE 65% N-BENZYL-OXYCARBONYL-O-[N,N-BIS(2-CHLOROETHYL)-CARBAMOYL]-DL-THREONINE BENZYL ESTER, m. 80-1 DEGREE. AN ATTEMPTED PREPN. BY THE METHOD SUCCESSFULLY APPLIED TO THE SERINE DERIV. GAVE A 3% YIELD. THIS WAS SEPD. BY PASSING IN C6H6 THROUGH Al2O3. RECRYSTALLIZATION OF THIS PREPN. WITH COCL2 AND THE OH COMPD. 2 WEEKS GAVE 37% YIELD. SUBSTITUTED O-CARBAMOYL-DL- AND -L-SERINE AND -DL-THREONINE DERIVS. WERE PREPD AS
FAN	EP 307837	A2	19890322	EP 1988-114867	19880912	
PPI	EP 307837	A3	19911211			
	R: AT, BE, CH, DE, ES, FR, GB, GR, IT, LI, LU, NL, SE					
AU	8822223	B1	19890420	AU 1988-22223	19880914	
AU	613956	B2	19910815			
JP	01221357	A2	19890904		19880914	
DK	8805146	A	19890317	DK 1988-5146	19880915	
US	1987-97553	A	19870916			
US	1988-231869		19880816			
WARPAT	111:214942					
ANSWER 5 OF 6 CAPLUS			COPYRIGHT 2003 ACS			
L8	1989:173760	CAPLUS				
110:173760						
PREPARATION OF RENIN-INHIBITING PEPTIDES						
II	Hagenbach, Alexander; Metternich, Rainer; Pfenninger, Emil; Weidmann, Beat					
IN	Sandoz A.-G., Switz.					
BRIT. UK Pat. Appl., 88 PP.						
CODEN: BAXXDU						
PATENT						
ENGLISH						
FAN	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE	
GB	2200115	A1	19880727	GB 1988-1040	19880118	
PI	GB 2200115	B2	19901114			
NL	8800100	A	19880816	NL 1988-100	19880118	
CH	676988	A	19910328	CH 1988-157	19880118	
FR	2609716	A1	19880722	FR 1988-636	19880119	
DK	8800225	A	19880722	DK 1988-225	19880119	
AU	8810375	A1	19880901	AU 1988-10375	19880119	
BE	1002212	A5	19901016	BE 1988-67	19880119	
SE	8800169	A	19880722	SE 1988-169	19880120	
IT	88019053	A2	19890123	IT 1988-10571	19880120	
JP	1987-370159	A	19870927	JP 1988-10571	19880121	
FR	1987-370159	A	19870927	FR 1988-415	19880121	
WARPAT	110:173760		19870307			
ANSWER 6 OF 6 CAPLUS			COPYRIGHT 2003 ACS			
L8	1959:99544	CAPLUS				
53:99544						
53:99544						
53:17916b-1,17917a-d						
PREP	Cytocative amino acids and peptides. VII. Derivatives					
II	of serine and threonine</					

ANSWER 6 OF 6 CAPLUS COPYRIGHT 2003 ACS  
cf. C.A. 53, 12201e  
"nitrogen mustard" radical as an amido group, carrying the  
O-[N-N-bis(2-chloroethyl)carbamoyl]-DL- and L-serine (I) (II) and  
-DL-threonine (III). A no. of other N-substituted O-carbamoylserines were  
prepared. The N-benzoyloxy-carbonyl- (IV) and N-(p-nitrobenzyloxy-  
carbamyl)threonine (V), and to a smaller extent the corresponding serine  
comps. (VI), (VII), produced oxazolindones on treatment with alkali. In  
dry MeOH with HCl at 5 degree. The clear soln. was evapd to dryness  
in 200 ml. MeOH, hydrogenolyzed with 200 mg. 5% Pd-C, the catalyst  
removed, and the solvent evapd. in the case of N-benzoyloxy-carbonyl-O-[N-  
bis(2-chloroethyl)-carbamoyl]-DL-serine Me ester, concd. HCl was added to  
the MeOH soln. before hydrogenolysis and the produced isolated as the HCl  
salt. The following mp's were obtained: m. 117 degree. 95% H2NCH(CH2O2NCH(CH2O2CH2C)12  
m. 127 degree. 72% H2NCH(CO2NH(CH2O2NCH(CH2O2CH2C)12  
H2NCH(CO2NH(CH2O2CH2C)12 m. 121 degree. 95% H2NCH(CO2Me)(CH2O2CH(CH2O2CH2C)12  
m. 115-16 degree. 95% H2NCH(CO2NH(CH2O2CH2C)12 m. 30 degree. The  
O-N-bis(2-chloroethyl)carbamoyl-DL-serine Me ester-HCl series was prepd.  
by sacg. a suspension of the corresponding amino acid  
in dry MeOH with HCl at 5 degree. The clear soln. was evapd to dryness

ANSWER 6 OF 6 CAPLUS COPYRIGHT 2003 ACS

of C-A 53, 122015, amino acid derivatives carrying the "nitrogen mustard" radical side group were synthesized in the form of O-[N-bis(2-chloroethyl)carbamoyl]-DL- and L-serine (I) (II) and -DL-threonine (III). A no. of other N-substituted O-carbamoylserine were prepd. The N-benzoyloxycarbonyl- (IV) and N-(p-nitrobenzyloxy-carbonyl)threonine (V), and to a smaller extent the corresponding serine compounds (VI), (VII), produced oxazolidones on treatment with alkali. In

and the residue recrystd. from MeOH/Et2O (yield 78%). Hydrolysis expts. on 1-III were as follows. The compd. (0.1 millimole) in 50 ml. H2O kept at 37 degree. was kept from atm. CO2 by argon and the pH of the soln. kept 24 hrs. at 7.4. The results were tabulated. In the case of I the compd. was decompd. into relatively stable intermediate which itself decompd. to a 2nd intermediate which yielded serine. Similarly, III gave threonine. With PhOH as solvent, serine and the 2 preceding intermediates have Rf 0.10 and the bis(2-hydroxyethyl)carbamoyl-DL-serine has Rf 0.72. Iso-Pr carbamate (1:2), 2-hydroxyethylcarbamate (1:2) and Et2O added dropwise at 20-25 degree to HN(CH2CH2Cl)2 in 20 ml Et2O gave a precipitate the next morning with dil. acid, dil. NaHCO3, and H2O gave 65% VIII, D1 121-3 degree..

=> s 17 and amino acid carbonate?

902658 AMINO  
41 AMINOS  
902675 AMINO  
(AMINO OR AMINOS)  
3567624 ACID  
1359328 ACIDS  
4030256 ACID  
(ACID OR ACIDS)  
260251 CARBONATE?  
17 AMINO ACID CARBONATE?  
(AMINO(W)ACID(W)CARBONATE?)  
L9 0 L7 AND AMINO ACID CARBONATE?

=> s amino acid carbonate?

902658 AMINO  
41 AMINOS  
902675 AMINO  
(AMINO OR AMINOS)  
3567624 ACID  
1359328 ACIDS  
4030256 ACID  
(ACID OR ACIDS)  
260251 CARBONATE?  
17 AMINO ACID CARBONATE?  
(AMINO(W)ACID(W)CARBONATE?)  
L10 0 L7 AND CHLORO?

=> s 110 and chloro?

843927 CHLORO?  
1 L10 AND CHLORO?

=> d

L11 ANSWER 1 OF 1 CAPLUS COPYRIGHT 2003 ACS  
AN 1974:133784 CAPLUS  
DN 80:133784  
TI Peptides. V. Carbonates of ethyl 2-hydroximin-2-cyanoacetate and related compounds as esterification reagents for peptide synthesis  
AU Itoh, Masumi  
CS Res. Lab., Fujisawa Pharm. Co., Ltd., Osaka, Japan  
SO Bulletin of the Chemical Society of Japan (1974), 47(2), 471-5  
CODEN: BCSJAS; ISSN: 0009-2673  
DT Journal  
LA English

=> d abs

L11 ANSWER 1 OF 1 CAPLUS COPYRIGHT 2003 ACS  
GI For diagram(s), see printed CA Issue.  
AB Seventeen carbonates (I, R = Et, Me, Me2CHCH2, PhCH2, allyl, aryl; R1 = CONH2, CO2Et, H, Me; R2 = CN, Me, COMe, CO2Et) of Et 2-hydroximin-2-

cyanoacetate and 2-hydroximin-2-cyanoacetamide were prepd. and utilized as esterification reagents for R3CO2H(R3CO2H = PhCO2H; PhCH2O2C-Gly-OH, PhCH2O2C-Trp-OH, H-Phe-OH, etc.) to yield R3CO2R and/or R3CO2N;CR1R2.

=> s 110 and chlorocarbonate  
1274 CHLOROCARBONATE  
164 CHLOROCARBONATES  
1365 CHLOROCARBONATE  
(CHLOROCARBONATE OR CHLOROCARBONATES)  
L12 1 L10 AND CHLOROCARBONATE

=> d

L12 ANSWER 1 OF 1 CAPLUS COPYRIGHT 2003 ACS  
AN 1974:133784 CAPLUS  
DN 80:133784  
TI Peptides. V. Carbonates of ethyl 2-hydroximin-2-cyanoacetate and related compounds as esterification reagents for peptide synthesis  
AU Itoh, Masumi  
CS Res. Lab., Fujisawa Pharm. Co., Ltd., Osaka, Japan  
SO Bulletin of the Chemical Society of Japan (1974), 47(2), 471-5  
CODEN: BCSJAS; ISSN: 0009-2673  
DT Journal  
LA English

=> d his

(FILE 'HOME' ENTERED AT 10:39:39 ON 10 MAR 2003)

FILE 'CAPLUS' ENTERED AT 10:39:52 ON 10 MAR 2003  
L1 3838 S MIXED ANHYDRIDE? OR ASYMMETRICAL ANHYDRIDE? OR UNSYMMETRICAL  
L2 794 S L1 AND AMINO ACID?  
L3 5 S L2 AND ORGANIC BASE  
L4 128 S L2 AND (PHOSPHATE OR SULFATE OR SULPHATE OR CARBOXYLIC)  
L5 5 S L4 AND AMINO ACID ANHYDRIDE?  
L6 1388 S AMINO ACID? AND (CHLOROFORMATE OR CHLOROCARBONATE)  
L7 58 S L6 AND (MORPHOLINE OR NMM)  
L8 6 S L7 AND ADDITION  
L9 0 S L7 AND AMINO ACID CARBONATE?  
L10 17 S AMINO ACID CARBONATE?  
L11 1 S L10 AND CHLORO?  
L12 1 S L10 AND CHLOROCARBONATE

=> s 17 and preparation  
1220601 PREPARATION  
60076 PREPARATIONS  
1278084 PREPARATION  
(PREPARATION OR PREPARATIONS)  
2239496 PREPN  
181720 PREPN  
2379633 PREPN  
(PREPN OR PREPN)  
3075262 PREPARATION  
(PREPARATION OR PREPN)  
L13 57 L7 AND PREPARATION

=> s 113 and anhydride?

187574 ANHYDRIDE?  
13 L13 AND ANHYDRIDE?

=> d 1-13

L14 ANSWER 1 OF 13 CAPLUS COPYRIGHT 2003 ACS

AN 2002:575066 CAPLUS  
DN 137:140777  
TI Preparation of piperazinyl and hexahydro-1,4-diazepinyl  
amino acid derivatives as melanocortin receptor agonists  
IN Fischer, Ryan Thomas; Briner, Karin; Doecke, Christopher William;  
Matthew Joseph; Kukish, Steven Lee; Mancuso, Vincent; Martinielli, Michael  
John; Shah, John Philip; Odetunmbi, Paul Leslie; Richardson,  
Timothy Ivor; Shah, Jitkesh Arvind; Shi, Qing; Wu, Zhipel; Xie, Chaoyu  
PA Eli Lilly and Company, USA  
SO PCT Int. Appl., 356 pp.  
DT Patent  
LA English  
FAN.CNT 2  
PATENT NO. KIND DATE APPLICATION NO. DATE  
PI WO 2002059108 A1 20020801 WO 2002-US517 20020123  
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN,  
CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH,  
GM, GR, GU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR,  
LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MY, NZ, OM, PH,  
PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ,  
UA, UG, US, UZ, VN, YU, ZA, ZW, ZM, ZY, ZY, ZY, ZY, ZY, ZY,  
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, CH,  
CY, DE, DK, EE, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR,  
BF, BJ, CF, CG, CI, CM, GN, GQ, GW, ML, MR, NE, SN, TD, TG  
PRAI US 2001-263471P P 20010123  
OS MARPAT 137:140777  
RE.CNT 2 THERE ARE 2 CITED REFERENCES AVAILABLE FOR THIS RECORD  
ALL CITATIONS AVAILABLE IN THE RE FORMAT  
L14 ANSWER 2 OF 13 CAPLUS COPYRIGHT 2003 ACS  
AN 2002:575065 CAPLUS  
DN 137:140776  
TI Preparation of piperidinyl and piperazinyl amino  
acid derivatives as melanocortin receptor agonists  
IN Backer, Ryan Thomas; Briner, Karin; Doecke, Christopher William; Fisher,  
Matthew Joseph; Kukish, Steven Lee; Mancuso, Vincent; Martinielli, Michael  
John; Shah, John Philip; Odetunmbi, Paul Leslie; Richardson, Timothy  
Ivor; Shah, Jitkesh Arvind; Shi, Qing; Wu, Zhipel; Xie, Chaoyu  
PA Eli Lilly and Company, USA  
SO PCT Int. Appl., 455 pp.  
DT Patent  
LA English  
FAN.CNT 1  
PATENT NO. KIND DATE APPLICATION NO. DATE  
PI WO 2002059107 A1 20020801 WO 2002-US516 20020123  
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN,  
CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH,  
GM, GR, GU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR,  
LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MY, NZ, OM, PH,  
PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ,  
UA, UG, US, UZ, VN, YU, ZA, ZW, ZM, ZY, ZY, ZY, ZY, ZY, ZY,  
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, CH,  
CY, DE, DK, EE, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR,  
BF, BJ, CF, CG, CI, CM, GN, GQ, GW, ML, MR, NE, SN, TD, TG  
PRAI US 2001-263595P P 20010123  
OS MARPAT 137:140776  
RE.CNT 6 THERE ARE 6 CITED REFERENCES AVAILABLE FOR THIS RECORD  
ALL CITATIONS AVAILABLE IN THE RE FORMAT  
L14 ANSWER 3 OF 13 CAPLUS COPYRIGHT 2003 ACS  
AN 2002:575066 CAPLUS  
DN 137:140777  
TI Preparation of piperazinyl and hexahydro-1,4-diazepinyl  
amino acid derivatives as melanocortin receptor agonists  
IN Fischer, Ryan Thomas; Briner, Karin; Doecke, Christopher William;  
Matthew Joseph; Kukish, Steven Lee; Mancuso, Vincent; Martinielli, Michael  
John; Shah, John Philip; Odetunmbi, Paul Leslie; Richardson, Timothy  
Ivor; Shah, Jitkesh Arvind; Shi, Qing; Wu, Zhipel; Xie, Chaoyu  
PA Eli Lilly and Company, USA  
SO PCT Int. Appl., 356 pp.  
DT Patent  
LA English  
FAN.CNT 2  
PATENT NO. KIND DATE APPLICATION NO. DATE  
PI WO 2002059108 A1 20020801 WO 2002-US517 20020123  
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN,  
CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH,  
GM, GR, GU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR,  
LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MY, NZ, OM, PH,  
PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ,  
UA, UG, US, UZ, VN, YU, ZA, ZW, ZM, ZY, ZY, ZY, ZY, ZY, ZY,  
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, CH,  
CY, DE, DK, EE, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR,  
BF, BJ, CF, CG, CI, CM, GN, GQ, GW, ML, MR, NE, SN, TD, TG  
PRAI US 2001-263471P P 20010123  
OS MARPAT 137:140777  
RE.CNT 2 THERE ARE 2 CITED REFERENCES AVAILABLE FOR THIS RECORD  
ALL CITATIONS AVAILABLE IN THE RE FORMAT  
L14 ANSWER 2 OF 13 CAPLUS COPYRIGHT 2003 ACS  
AN 2002:575065 CAPLUS  
DN 137:140776  
TI Preparation of piperidinyl and piperazinyl amino  
acid derivatives as melanocortin receptor agonists  
IN Backer, Ryan Thomas; Briner, Karin; Doecke, Christopher William; Fisher,  
Matthew Joseph; Kukish, Steven Lee; Mancuso, Vincent; Martinielli, Michael  
John; Shah, John Philip; Odetunmbi, Paul Leslie; Richardson, Timothy  
Ivor; Shah, Jitkesh Arvind; Shi, Qing; Wu, Zhipel; Xie, Chaoyu  
PA Eli Lilly and Company, USA  
SO PCT Int. Appl., 455 pp.  
DT Patent  
LA English  
FAN.CNT 1  
PATENT NO. KIND DATE APPLICATION NO. DATE  
PI WO 2002059107 A1 20020801 WO 2002-US516 20020123  
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN,  
CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH,  
GM, GR, GU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR,  
LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MY, NZ, OM, PH,  
PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ,  
UA, UG, US, UZ, VN, YU, ZA, ZW, ZM, ZY, ZY, ZY, ZY, ZY, ZY,  
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, CH,  
CY, DE, DK, EE, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR,  
BF, BJ, CF, CG, CI, CM, GN, GQ, GW, ML, MR, NE, SN, TD, TG  
PRAI US 2001-263595P P 20010123  
OS MARPAT 137:140776  
RE.CNT 6 THERE ARE 6 CITED REFERENCES AVAILABLE FOR THIS RECORD  
ALL CITATIONS AVAILABLE IN THE RE FORMAT  
L14 ANSWER 3 OF 13 CAPLUS COPYRIGHT 2003 ACS  
AN 1999:819360 CAPLUS  
DN 132:64524  
TI Preparation of N-thiazolidinylcarbonylphenylalanine derivatives  
and analogs as inhibitors of alpha-4.beta.1 mediated cell adhesion  
IN Blinn, James R.; Brinckerhoff, Robert A.; Fisher, Jed F.; Ianni, Steven P.;  
Thomas, Edward William; Loh, Thomas J.; Reegarden, Bradley R.  
PA Phosphatidylcholine and Upjohn Company, USA; Ranabe Selyaku Co., Ltd.  
SO PCT Int. Appl., 308 pp.  
DT Patent  
LA English  
FAN.CNT 1  
PATENT NO. KIND DATE APPLICATION NO. DATE  
PI WO 9967230 A1 19991229 WO 1999-US14233 19990623  
W: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE,  
DK, EE, ES, FI, GB, GD, GE, GH, GR, GU, ID, IL, IN, IS, JP, KE, KG,  
KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO,  
NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG,  
US, UZ, VN, YU, ZA, ZW, ZM, ZY, ZY, ZY, ZY, ZY, ZY, ZY, ZY, ZY, ZY,  
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, UG, ZW, AT, BE, CH, CY, DE, DK,  
CY, DE, DK, EE, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG,  
CI, CM, GN, GQ, GW, ML, MR, NE, SN, TD, TG  
CA 2342778 AA 19991229 CA 1999-2342778 19990623  
AU 9947116 A1 20000110 AU 1999-47116 19990623  
EP 1089989 A1 20010411 EP 1999-930614 19990623  
R: AT, BE, CH, DE, DK, EE, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,  
IE, FI  
JP 2002518491 T2 20020625 JP 2000-555884 19990623  
NZ 509010 A 20021025 NZ 1999-509010 19990623  
PRAI US 1998-90421P P 19980623  
OS MARPAT 132:64524 W 19990623  
RE.CNT 2 THERE ARE 2 CITED REFERENCES AVAILABLE FOR THIS RECORD  
ALL CITATIONS AVAILABLE IN THE RE FORMAT  
L14 ANSWER 4 OF 13 CAPLUS COPYRIGHT 2003 ACS  
AN 1999:794364 CAPLUS  
DN 132:35986  
TI Preparation of spinosyn macrocyclic lactone aminodeoxy  
glycosides, insecticides and acaricides  
IN Blinn, James R.; Brinckerhoff, Robert A.; Fisher, Jed F.; Ianni, Steven P.;  
Thomas, Edward William; Loh, Thomas J.; Reegarden, Bradley R.;  
Kistner, Kevin L.; Green, Frederick Richard III; Sparks, Thomas C.;  
Kistner, Herbert A.; Green, Lawrence Camillo; Worden, Thomas V.;  
Schoonover, Joe Raymond Jr.; Gifford, James Michael; Hutton, Christopher  
J.; Hegde, Vidyaadhar B.; Crouse, Gary D.; Thoreen, Brian R.; Ricks,  
Michael J.  
PA Dow Agrosciences LLC, USA  
SO U.S., 122 pp., Cont. of U.S. Ser. No. 662,549, abandoned.  
DT Patent  
LA English  
FAN.CNT 1  
PATENT NO. KIND DATE APPLICATION NO. DATE  
PI US 6001981 A 19991214 US 1997-968856 19971105  
PRAI US 1996-662549 19960613  
OS MARPAT 132:35986  
RE.CNT 86 THERE ARE 86 CITED REFERENCES AVAILABLE FOR THIS RECORD  
ALL CITATIONS AVAILABLE IN THE RE FORMAT  
L14 ANSWER 5 OF 13 CAPLUS COPYRIGHT 2003 ACS  
AN 1999:464267 CAPLUS  
DN 131:116517

TI Preparation of N-acyl-phenylalanine derivatives as inhibitors of alpha-4-mediated cell adhesion  
IN Sancar, Ila; Gudmundsson, Kristjan S.; Martin, Richard  
PA PCN 118: 243 pp.  
SO CODEN: USXXAM  
DT Patent  
LA English  
FAN.CNT.1

PI WO 936393 A1 19990722 WO 1999-US993 19990119  
W: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GD, GE, GH, GM, GR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MM, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM  
RW: GH, GM, KE, LS, MW, SD, SZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, CA, GN, GM, ML, MR, NE, SN, TD, TG  
CA 2318527 A1 19990722 CA 1999-2318527 19990119  
AU 9924584 A1 19990802 AU 1999-24584 19990119  
AU 749568 B2 20020627  
BR 9907040 A 20001017 BR 1999-7040 19990119  
EP 1049662 A1 20001108 EP 1999-904115 19990119  
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, FI  
JP 2002503131 T2 20020326 JP 2000-540111 19990119  
US 6521666 B1 20030218 US 2000-619712 20000719  
PRAI US 1998-71840P P 19980120  
OS MARPAT 13:116517 W 19990119  
RE.CNT.4 THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS RECORD  
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L14 ANSWER 6 OF 13 CAPLUS COPYRIGHT 2003 ACS  
AN 1997163818 CAPLUS  
IN 127:205889  
TI Preparation of amino acid derivatives as  
Kubiconsulants  
IN Kohn, Harold L.; Watson, Darrell  
PA Research Corporation Technologies, Inc., USA  
SO U.S. 49 pp., Cont.-in-part of U.S. 5,378,729.  
CODEN: USXXAM  
DT Patent  
LA English  
FAN.CNT.6

PI US 5654301 A 19970805 US 1993-3208 19930112  
AU 595538 B2 19990405 AU 1986-61766 19860821  
AU 8661766 A1 19880225  
AU 609062 B2 19910426 AU 1987-79491 19871006  
AU 8779491 A1 19890406  
JP 03506045 T2 19911226 JP 1990-508758 19900518  
US 5378729 A 19950103 US 1991-710610 19910604  
WO 9221648 A1 19921210 WO 1992-US4687 19920604  
W: AU, CA, JP  
RW: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LU, MC, NL, SE  
PRAI US 1985-702195 A2 19850215  
US 1986-916254 A2 19861007  
US 1987-80528 B2 19870731  
US 1989-354057 B2 19890519  
US 1989-392870 B2 19890811

OS ANSWER 7 OF 13 CAPLUS COPYRIGHT 2003 ACS  
AN 198637443 CAPLUS  
IN 125:39473  
TI Preparation of aminediol-containing peptide analogs as  
retroviral protease inhibitors  
IN Gordon, Eric M.; Barlish, Joel C.; Bisacchi, Gregory S.; Sun, Chong-qing;  
Tino, Joseph A.; Vite, Gregory D.; Zahler, Robert  
PA E. R. Squibb & Sons, Inc., USA  
SO U.S. 219 pp., Cont.-in-part of U.S. Ser. No. 927,027, abandoned.  
CODEN: USXXAM  
DT Patent  
LA English  
FAN.CNT.2

PI US 5559256 A 19960924 US 1993-79978 19930625  
AU 9341659 A1 19940127 AU 1993-41659 19930630  
HU 677194 B2 19970417 HU 1993-2080 19930719  
CA 2100894 AA 19950130 CA 1993-2100894 19930720  
NO 9302620 A 19940121 NO 1993-2620 19930720  
EP 580402 A2 19940126 EP 1993-305691 19930720  
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LI, LU, MC, NL, PT, SE  
ZA 9305243 A 19940217 ZA 1993-5243 19930720  
CN 1085546 A 19940420 CN 1993-108954 19930720  
JP 06206857 A2 19940726 JP 1993-201016 19930720  
US 5760036 A 19980602 US 1995-455295 19950531  
US 5776933 A 19980707 US 1995-456125 19950531  
PRAI US 1992-916916 19920720  
US 1992-927027 19920806  
US 1993-79978 19930625  
OS MARPAT 125:329473

L14 ANSWER 8 OF 13 CAPLUS COPYRIGHT 2003 ACS  
AN 1993:25342 CAPLUS  
IN 118:25342  
TI Preparation of N-(heterocyclylcarbonyl)amino  
acids and analogs as prolyl endopeptidase inhibitors  
IN Ikeda, Akihiko; Tanabe, Naoko; Nakayama, Akahide; Sekine, Yasuo;  
Shibata, Masahiro; Inaba, Jiro; Takasaki, Kazuhiko  
PA Fujirebio, Inc., Japan  
SO Jpn. Kokai Tokkyo Koho, 59 pp.  
CODEN: JKKXAF  
DT Patent  
LA Japanese  
FAN.CNT.1

PI JP 04334357 A2 19921120 JP 1991-128256 19910502  
PRAI JP 1991-128256  
OS MARPAT 118:255342

L14 ANSWER 9 OF 13 CAPLUS COPYRIGHT 2003 ACS  
AN 1992:427149 CAPLUS  
IN 117:27149  
TI Preparation of N-[(imidazopyridylmethyl)phenylsulfonyl]  
amino acids as PAF antagonists  
IN Whittaker, Mark; Miller, Andrew; Bowles, Stephen Arthur  
PA British Bio-Technology Ltd., UK

SO PCT Int. Appl., 150 pp.  
 DT CODEN: PIXXD2  
 LA English  
 FAN.CNT 2

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI WO 9203423	A1	19920305	WO 1991-GB1392	19910815
CA 2088761	W: AU, CA, FI, HU, JP, KR, NO, US			
AU 9184268	AA	19920216	CA 1991-2088761	19910815
AU 655595	B2	19950105	AU 1991-84268	19910815
US 5180723	A	19930119	US 1991-746246	19910815
ZA 9106467	A	19930428	ZA 1991-6467	19910815
ZA 9106468	A	19930428	ZA 1991-6468	19910815
EP 543858	A1	19930602	EP 1991-914348	19910815
EP 543858	B1	20001220		
JP 06500316	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE			
JP 2976004	T2	19940113	JP 1991-513676	19910815
HU 67289	B2	19991110		
ES 2153820	A2	19950328	HU 1993-389	19910815
US 5274094	T3	20010115	AT 1991-914348	19910815
US 5276153	A	19940104	ES 1991-914348	19910815
NO 9300498	A	19930414	US 1992-992269	19921214
US 5451676	A	19950919	US 1992-990273	19921214
AU 9453090	A1	19940317	NO 1993-498	19930112
AU 658337	B2	19950406	US 1993-146302	19931101
JP 1135070	A2	19970606	AU 1994-53090	19940107
JP 3120075	A2	19991116	NO 1997-2615	19970606
GB 1990-18040	A	19900815	JP 1999-94507	19990401
GB 1991-12214	A	19910606		
US 1991-718576	A3	19910815		
US 1991-718576	A1	19910815		
WO 1991-746246	A1	19910815		
US 1992-992269	A1	19921214		

L14 ANSWER 10 OF 13 CAPLUS COPYRIGHT 2003 ACS  
 DN 114:247788 CAPLUS  
 TI Peptide derivatives preparation as retroviral protease inhibitors  
 IN Kempf, Dale J.; Plattner, Jacob J.; Norbeck, Daniel W.; Boyd, Steven A.; Baker, William R.; Erickson, John W.; Fung, Anthony K. L.; Crowley, Steven R.  
 PA Abbott Laboratories, USA  
 SO PCT Int. Appl., 222 pp.  
 DT Patent  
 LA English  
 FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI WO 8910752	A1	19891116	WO 1989-US2055	19890512
EP 342541	W: AU, DK, JP, KR, US			
EP 1989-108590	RW: AT, BE, CH, DE, FR, GB, IT, LU, NL, SE			
EP 342541	A2	19891123	EP 1989-108590	19890512
EP 342541	A3	19911106		

R: ES, GR  
 AU 8935660 A1 19891129 AU 1989-35660 19890512  
 EP 415981 A1 19910313 EP 1989-905856 19890512  
 R: AT, BE, CH, DE, FR, GB, IT, LI, LU, NL, SE  
 JP 0350424 T2 19910919 19890512  
 WO 1989-056033 19890512  
 PRAI WO 1989-056033  
 OS MARPAT 114:247788

L14 ANSWER 11 OF 13 CAPLUS COPYRIGHT 2003 ACS  
 DN 114:115078 CAPLUS  
 TI Amino acid transport proteins, amino acid analogues, assay apparatus, uses thereof for treatment and diagnosis of cancer  
 IN Palmer, Clive Frederick; McEvoy-Bowe, Edward; Weeban, George Victor; Piva, Terrence; Rigano, Donna; Favot, Paula; West, Michael; McCabe, Michael  
 PA Australian Commercial Research and Development Ltd., Australia  
 SO PCT Int. Appl., 300 pp.  
 DT Patent  
 LA English  
 FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI WO 9003399	A1	19900405	WO 1989-AU427	19891002
W: AT, AU, BB, BG, BR, CH, DE, DK, FI, GB, HU, JP, KR, LK, LU, MC, MG, MW, NL, NO, RO, SD, SE, SU, US				
RW: AT, BE, BF, BJ, CF, CG, CH, CM, DE, FR, GA, GB, IT, LU, ML, MR, NL, SE, SN, TD, TG				
CN 1052144 A	19910612	CN 1989-108735	19890930	
AU 8943294 A1	19900418	AU 1989-43294	19891002	
EP 436612 A1	19910717	EP 1989-911006	19891002	
R: AT, BE, CH, DE, FR, GB, IT, LI, LU, NL, SE				
JP 06504031 T2	19940512	JP 1989-510278	19891002	
PRAI AU 1988-695	19880930			
AU 1988-713	19881003			
AU 1989-3258	19890317			
AU 1989-4948	19890628			
AU 1989-5364	19890729			
AU 1989-5611	19890804			
AU 1989-5840	19890807			
AU 1989-5872	19890812			
AU 1989-6315	19890812			
WO 1989-AU427	19891002			
OS MARPAT 114:115078				

L14 ANSWER 12 OF 13 CAPLUS COPYRIGHT 2003 ACS  
 DN 112:217541 CAPLUS  
 TI Preparation and testing of peptide analogs as renin inhibitors  
 IN Branca, Quirico; Edenhofer, Albrecht; Gutknecht, Eva Maria; Neidhart, Werner; Ramuz, Henri; Westl, Wolfgang  
 PA Hoffmann-La Roche, F. und Co. A.-G., Switz.  
 SO Eur. Pat. Appl., 74 pp.  
 DT Patent  
 LA German  
 FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI EP 310918	A2	19890412	EP 1988-115878	19880927
EP 310918	A3	19901212		
R: AT, BE, CH, DE, ES, FR, GB, GR, IT, LI, LU, NL, SE				

L15 (CHLOROCARBONATE OR CHLOROCARBONATES)  
84 AMINO ACID AND MIXED ANHYDRIDE? AND (CHLOROFORMATE OR CHLOROCARBONATE)

=> s l15 and easy  
74814 EASY  
1 EASIES  
74815 EASY  
(EASY OR EASIES)  
0 L15 AND EASY

=> s l15 and one-step  
1637882 ONE  
156886 ONES  
1747885 ONE (ONE OR ONES)  
342577 STEP  
218463 STEPS  
522120 STEP (STEP OR STEPS)  
17425 ONE-STEP (ONE(W)STEP)  
1 L15 AND ONE-STEP

L17  
=> d

L17 ANSWER 1 OF 1 CAPLUS COPYRIGHT 2003 ACS  
DN 1989:57469 CAPLUS  
TI 110:57469

Amino acid derivatives of 2-(p-chlorophenoxy)-2-methylpropionic acid as potential antilipemic agents. I. Preparation of 1-(alpha-[2-(p-chlorophenoxy)-2-methylpropionylamino]-.alpha.-alkyl)acetylpyrrolidine and -piperidine  
Kwapiszewski, Wincenty; Borkowski, Leszek  
CS Dep. Pharm. Chem., Sch. Med., Warsaw, 02097, Pol.  
SO Acta Polonae Pharmaceutica (1987), 44(1), 1-11  
CODEN: APHAX; ISSN: 0001-6837  
DT Journal  
LA Polish  
OS CASREACT 110:57469

=> s l15 AND AMINE  
232109 AMINE  
219793 AMINES  
355886 AMINE  
(AMINE OR AMINES)  
11 L15 AND AMINE

=> D 1-11

L18 ANSWER 1 OF 11 CAPLUS COPYRIGHT 2003 ACS  
AN 2001:392823 CAPLUS  
TI 9:153056

9-amino-4,5-diazafluorene-9-carboxylic acid (Daf), a new C-alpha,.alpha.-disubstituted glycine containing spatially constrained biaryl-like ligand for the synthesis and evaluation of peptide-coupling conditions at its C- and N-termini  
Mazaleyrat Jean Paul; Wright Karen; Wakelam Michel; Formaggio, Fernando; Crisma Marco; Toniolo Claudio  
AU SIRCOR ESA CNRS 8086 Université de Versailles, Versailles, 78000, Fr.  
CS European Journal of Organic Chemistry (2001), (10), 1821-1829  
CODEN: EJOCFK; ISSN: 1434-193X  
PB Wiley-VCH Verlag GmbH  
DT Journal

DK 8805232 A 19890407 DK 1988-5232 19880920  
ZA 8807322 A 19890628 ZA 1988-7322 19880929  
AU 8823307 A1 19890608 AU 1988-23307 19880930  
E2 19920820  
HU 49322 A2 19890928 HU 1988-5114 19881003  
NO 8804434 A 19890407 NO 1988-4434 19881005  
FI 8804598 A 19890407 FI 1988-4598 19881006  
JP 0225658 A 19901017 JP 1988-252886 19881006  
US 5250517 A 19931005 US 1992-879522 19920504  
PRAI CH 1987-3903 19871006  
US 1988-454003 19881005  
OS MARPAT 112:217541

L14 ANSWER 13 OF 13 CAPLUS COPYRIGHT 2003 ACS  
DN 1989:614942 CAPLUS  
TI 111:214942

Preparation of renin-inhibiting peptidylheterocycles and their intermediates for treatment of hypertension  
Rosenberg, Saul Howard; Sham, Hing Leung; Baker, William R.; Dellaria, Joseph F., Jr.; Kempf, Dale J.  
PA Abbott Laboratories, USA  
SO Eur. Pat. Appl., 103 pp.  
CODEN: EPXDXM

DT Patent  
LA English  
FAN CNT 1

PI EP 307837 KIND DATE APPLICATION NO. DATE  
EP 307837 A2 19890322 EP 1988-114867 19880912  
R: AT, BE, CH, DE, ES, FR, GB, GR, IT, LI, LU, NL, SE  
AU 8822223 A1 19890420 AU 1988-22223 19880914  
AU 613956 B2 19910815  
JP 01221357 A2 19890904 JP 1988-231430 19880914  
DK 8805146 A 19890317 DK 1988-5146 19880915  
PRAI US 1987-97553 19870916  
US 1988-231869 19880816  
OS MARPAT 111:214942

=> s amino acid and mixed anhydride? and (chloroformate or chloroformate)

902658 AMINO  
41 AMINOS  
902675 AMINO  
(AMINO OR AMINOS)  
3567624 ACID  
1359328 ACIDS  
4030256 ACID  
(ACID OR ACIDS)  
574782 AMINO ACID  
(AMINO(W)ACID)  
685170 MIXED  
685174 MIXED (MIXED OR MIXEDS)  
187574 ANHYDRIDE?  
3811 MIXED ANHYDRIDE?  
(MIXED(W)ANHYDRIDE?)  
17403 CHLOROFORMATE  
1610 CHLOROFORMATES  
17963 CHLOROFORMATE  
(CHLOROFORMATE OR CHLOROFORMATES)  
1274 CHLOROFORMATE  
164 CHLOROFORMATES  
1365 CHLOROFORMATE

LA English  
OS CASREACT 135:153090  
RE.CNT 57 THERE ARE 57 CITED REFERENCES AVAILABLE FOR THIS RECORD  
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L18 ANSWER 2 OF 11 CAPLUS COPYRIGHT 2003 ACS  
AN 1994:107663 CAPLUS  
DN 120:107663  
TI Preparation of activated esters of N-alkoxycarbonylamino and other acids by a modification of the mixed anhydride procedure  
AU Benoiton, N. Leo; Lee, Young C.; Chen, Francis M. F.  
CS Dep. Biochem., Univ. Ottawa, Ottawa, ON, Can.  
SO International Journal of Peptide & Protein Research (1993), 42(3), 278-83  
CODEN: IJPPC3; ISSN: 0367-8377  
DT Journal  
LA English  
OS CASREACT 120:107663

L18 ANSWER 3 OF 11 CAPLUS COPYRIGHT 2003 ACS  
AN 1992:134298 CAPLUS  
DN 127:134298  
TI Optically active complexes of transition metals (rhodium(I), ruthenium(II), cobalt(III) and nickel(II)) with 2-aminocarbonylpyrrolidine ligands. Selective catalysts for hydrogenation of prochiral olefins  
AU Corra, A.; Iglesias, M.; Del Pino, C.; Sanchez, F.  
CS Inst. Technol. Quim., UPV, Valencia, 46071, Spain  
SO Journal of Organometallic Chemistry (1992), 431(2), 233-46  
CODEN: JORCAL; ISSN: 0022-328X  
DT Journal  
LA English

L18 ANSWER 4 OF 11 CAPLUS COPYRIGHT 2003 ACS  
AN 1992:214884 CAPLUS  
DN 116:214884  
TI A new class of bradykinin antagonists: synthesis and in vitro activity of bisuccinimidooalkane peptide dimers  
AU Cheronis, John C.; Whalley, Eric T.; Nguyen, Khe T.; Eubanks, Shad R.; Allen, Lisa G.; Duggan, Matthew J.; Loy, Sharon D.; Bonham, Kathryn A.; Blodgett, James K.  
CS Cortech, Inc., Denver, CO, 80221, USA  
SO Journal of Medicinal Chemistry (1992), 35(9), 1563-72  
CODEN: JMCWAR; ISSN: 0022-2623  
DT Journal  
LA English

L18 ANSWER 5 OF 11 CAPLUS COPYRIGHT 2003 ACS  
AN 1991:1247788 CAPLUS  
DN 114:1247788  
TI Peptide derivatives preparation as retroviral protease inhibitors  
IN Kempf, Dale J.; Plattner, Jacob J.; Norbeck, Daniel W.; Boyd, Steven A.; Baker, William R.; Erickson, John W.; Fung, Anthony K. L.; Crowley, Steven R.  
PA Abbott Laboratories, USA  
SO Clin. Appl., 222 pp.  
CODEN: FIKXU2  
DT Patent  
LA English  
FAN.CNT 1

PI WO 8910752 A1 19891116 WO 1989-US2055 19890512  
RW: AU, DK, JP, KR, US  
W: AT, BE, CH, DE, FR, GB, IT, LU, NL, SE  
EP 342541 A2 19891123 EP 1989-108590 19890512  
EP 342541 A3 19911106

R: ES, GR  
AU 8935660 A1 19891129 AU 1989-35660 19890512  
EP 415981 A1 19910313 EP 1989-905856 19890512  
R: AT, BE, CH, DE, FR, GB, IT, LI, LU, NL, SE  
JP 03504247 T2 19910919 JP 1989-506033 19890512  
PRA1 US 1988-194678 19880513  
WO 1989-US2055 19890512  
OS MARPAT 114:247788

L18 ANSWER 6 OF 11 CAPLUS COPYRIGHT 2003 ACS  
AN 1990:515877 CAPLUS  
DN 113:115877  
TI Method of obtaining hydroxamic acids including amino acid and peptide derivatives  
IN Chmiak, Andrzej; Nakonieczna, Lucja  
PA Politechnika Gdanska, Pol.  
SO Pol., 8 pp. Abstracted and indexed from the unexamined application.  
CODEN: POXXA7  
DT Patent  
LA Polish  
FAN.CNT 1

PI PL 147573 B1 19890630 PL 1985-255015 19850815  
PRA1 PL 1985-255015 19850815  
OS MARPAT 113:115877

L18 ANSWER 7 OF 11 CAPLUS COPYRIGHT 2003 ACS  
AN 1988:38354 CAPLUS  
DN 108:38354  
TI Mixed anhydrides in peptide synthesis. A study of urethane formation with a contribution on minimization of racemization  
AU Chen, Francis M. F.; Lee, Young; Steinauer, Rene; Benoiton, N. Leo  
CS Dep. Biochem., Univ. Ottawa, Ottawa, ON, K1H 8M5, Can.  
SO Canadian Journal of Chemistry (1987), 65(3), 613-18  
CODEN: CJCHAG; ISSN: 0008-4042  
DT Journal  
LA English  
OS CASREACT 108:38354

L18 ANSWER 8 OF 11 CAPLUS COPYRIGHT 2003 ACS  
AN 1975:572672 CAPLUS  
DN 83:172672  
TI Methotrexate analogs. 6. Replacement of glutamic acid by various amino acid esters and amines  
AU Chaykovsky, Michael; Brown, Barbara L.; Modest, E. J.  
CS Sidney Farber Cancer Cent., Boston, MA, USA  
SO Journal of Medicinal Chemistry (1975), 18(9), 909-12  
CODEN: JMCWAR; ISSN: 0022-2623  
DT Journal  
LA English

L18 ANSWER 9 OF 11 CAPLUS COPYRIGHT 2003 ACS  
AN 1972:113499 CAPLUS  
DN 76:113499  
TI Diaminodicarboxylic acids. III. Reactivity of R,S- and meso-diaminodicarboxylic acids. Symmetrical and unsymmetrical derivatives  
AU Biernat, Jan F.; Gdansk, Gdansk, Pol.  
CS Politechnika Gdanska (1971), 45(12), 2081-7  
SO CODEN: ROCHAC; ISSN: 0035-7677  
DT Journal  
LA English

L18 ANSWER 10 OF 11 CAPLUS COPYRIGHT 2003 ACS

AN 1964:91243 CAPLUS  
 DN 60:91243  
 OREF 60:159809-h.15981a-c  
 TI Suppression of racemization during peptide synthesis  
 AU White, Thomas R.; Nelson, Jane S.  
 CS U.S. Dept. of Agr., Albany, N.Y.  
 SO Tetrahedron Letters (1964), (15-16), 819-25  
 DT Journal  
 LA Unavailable

L18 ANSWER 11 OF 11 CAPLUS COPYRIGHT 2003 ACS  
 AN 1961:17629 CAPLUS  
 DN 55:17629  
 OREF 55:3457e-i.3458a-i.3459a-f  
 TI Amino acids and peptides. XV. Racemization during  
 peptide synthesis  
 AU Smart, N. A.; Young, G. T.; Williams, M. W.  
 CS Univ. Oxford, UK  
 SO J. Chem. Soc. (1960) 3902-12  
 DT Journal  
 LA Unavailable

=> DA BS 2  
 DA IS NOT A RECOGNIZED COMMAND  
 The previous command name entered was not recognized by the system.  
 For a list of commands available to you in the current file, enter  
 "HELP COMMANDS" at an arrow prompt (=>).

=> D ABS 2  
 L18 ANSWER 2 OF 11 CAPLUS COPYRIGHT 2003 ACS  
 AB Generation of a mixed anhydride using Et or iso-Pr  
 chloroformate and N-methylmorpholine in CH<sub>2</sub>Cl<sub>2</sub> at room temp.,  
 followed by addn. of excess ring-substituted phenol or N-substituted  
 hydroxylamine and a catalytic amt. of tertiary amino, provides  
 an efficient synthesis of activated esters.